

MANKA, Karol; GIEHCZAK, Maria

Some new species and forms of fungi. Prace nauk roln i
leśn 15 no.2:119-130 '63.

1. Katedra Fitopatologii Leśnej, Wyższa Szkoła Rolnicza,
Poznań.

GIERCZAK, Maria

Studies on gangrene of pine and larch seedlings. Prace nauk
roln i lesn 15 no.2:131-145 '63.

1. Katedra Fitopatologii Lesnej, Wyzsza Szkola Rolnicza,
Poznan.

GIERUZAK, Maria

Studies on the occurrence of Ascomycetes fungi in forest soils.
Prace nauk roln i leśn 17 no.1:21-27 '64.

1. Department of Forest Phytopathology, College of Agriculture,
Poznan.

GEORGIADIS, Jerzy; LUTYNSKI, Roman; NEMYAN, Kazimierz; PERCZYNSKA, Teresa;
SWIECHOWSKA, Walentyna

Investigations on applying the aldolase test in the epidemiology of
hepatitis epidemica. Bull. Inst. Marine M. Gdansk 9 no.1-2:27-36 1958.

1. (From the Institute of Marine Medicine in Gdansk, and the Sanitary-
Epidemiological Stations of Cracow and Poznan).

(ALDOLASES, determination

aldolase activity in blood in early detection of epidemic
hepatitis)

(HEPATITIS, INFECTIOUS, diagnosis

determ. of aldolase activity of blood)

COUNTRY : POLAND B
 CATEGORY : Chemical Technology. Chemical Products and Their
 Applications. Food Industry.
 ABS. JOUR. : RZhKhim., No 17, 1959, No. 62529
 AUTHOR : Jankowski, S.; Jankiewicz, M.; Gierczynska, U.
 INSTITUTE : -
 TITLE : Effect of Bleaching Agents on the Results of Che-
 mical Determinations of the Reducing Sugars in *
 ORIG. PUB. : Roczn. Wyzsz. szkoly roln. Poznznin, 1958, 2,
 39-63
 ABSTRACT : Presented is a comparative determination of the
 reducing sugars in water extracts derived from
 wheat and rye flours and wheat bread, employing
 the iodometric, ferricyanide and Bertran's me-
 thods. Various quantities of bleaching agents
 were used in the determinations such as the Barn-
 shteyn-Shtutser's reagent and $ZnSO_4$ and $NaOH$. in
 accordance with the Proskuryakov's method, for
 the ferricyanide test. It is demonstrated that
 for the complete elimination of interfering
 *the Grain Refining Products.

Card: 1/2

GIEBZYNSKA, Zemon; JANUSENO, Zofia

Adaptation of Baier's determination of quinine oxidase to
Pulfrich's photocolormeter. Pol. tyg. lek. 19 no.42:1693-
1695 H 2 '64

1. 2 Kliniki Chorob Zakaznych Akademii Medycznej w Białymstoku
(Kierownik doc. dr. med. J. Boron).

GIERCZYNSKI, M.

Fifteen years activities of the Design Office for Maritime
Constructions. Tech gosp morska 14 no.10:Suppl.. Biul tech
BPM no.9:33-34 0 '64.

1. Head, Department of Production Organization of the Design
Office for Maritime Constructions, Gdansk.

BORON, Piotr; GIERCZYŃSKI, Zenon

Studies on the functional state of the liver in trichinosis.
Wlad. parazyt. 10 no.4:319-321 '64

1. Klinika Chorob Zakaźnych Akademii Medycznej, Białystok.

POKORSKI, J. A., Agnieszka; BULHAE, Wacław; CHŁOPIŃSKI, Zenon;
GŁOZDZIŃSKA, Zofia

Effect of glucocorticoid therapy on the activity of certain
enzymes in blood serum of patients with viral hepatitis. Pol.
arch. med. wewn. 35 no.6:763-765 '65.

L. F. Kłopot (Choroby Zakrzepotnicze i Trombotyczne).
doc. dr. med. B. Peron).

GIERDALSKI, J.

POLAND/Nuclear Physics - Installation and Instrument.
Methods of Measurement and Research.

C

Abs Jour : Ref Zhur Fizika, No 1, 1960, 304

Author : Gierdalski, Jerzy

Inst : -

Title : Attachment for High Speed Counter Type Le-2

Orig Pub : Nukleonika, 1959, 4, No 1, 98-100

Abstract : The block diagram and the technical specifications
are given.

Card 1/1

GIERDALSKI, Jerzy; POLONSKI, Jerzy

A method of parameter verification in prototype units with respect to optimum values and tolerances. Przegl elektroniki 5 no. 5: 227-228 My '64.

1. Department of Computer Design, Technical University, Warsaw.

GIERDALSKI, J.; POJONSKI, J.

A method of verifying the prototype elements in electronic circuit design. Przem inst telekom prace 14 no. 44:71-74 '64.

1. Institute of Telecommunication Systems and Radiophony, Technical University, Warsaw.

L 13480-66 EWT(m) DIARP

ACC NR: AP6006801

SOURCE CODE: PO/0046/65/010/008/0513/0516

AUTHOR: Faudrowicz, Adam; Gierdalski, Jerzy 32 B

ORG: Department of Experimentation, Bureau of the Office of Nuclear Technology,
Warsaw (Zaklad Doswiadczalny, Biuro Urzadzen Techniki Jadrowej)

TITLE: Some new ideas in application of radioisotopes for measuring thickness and density

SOURCE: Nukleonika, v. 10, no. 8, 1965, 513-516

TOPIC TAGS: radioisotope, radiation detecting device, nuclear physics apparatus

ABSTRACT: A self-compensation system for stabilizing measurements of thickness or density using radioisotopes. Detector gain variation with temperature and voltage is compensated. Orig. art. has: 7 figures and 5 formulas. [NA]

SUB CODE: 18 / SUBM DATE: ---64 / OTH REF: 001 / SOV REF: 001

17

13

***Influence of Moisture Content of Moulding Sand on Strength Properties of Cast Aluminium Test-Bars.** C. Giedrzyński (*Comptes rendus, Fonderie (Warsaw)* [Preprint], 1966, 13 pp. (in Polish and English), and *Found. Trade J.*, 1968, 60, (1187), 289-292). Test bars cast from 6% copper, 10% silicon (modified), and "RR 50" alloys were tested with moisture contents in the moulding sand ranging from 0 to 4% and compared with chill cast bars. Increasing moisture content produced increased porosity and considerable grain refinement, the resultant being little effect on tensile strength. The influence of mould permeability was also found to be small. H. W. G. H.

meeting

P.T.A.

001
021 74 001 04
Oderdziejewski K Defects in Castings and their Classification (with
atlas).
„Wady odlewnicze i ich systematyka” (z atlasem) Kraków 1948.
Wiedza Zakład Kultury 89, pp 43

Systematics of defects in castings. Analysis of the origin of de-
fects. Atlas of defects in castings

metallurgy

P.T.A

General Information on Moulding Materials

800

62174

~~General Information on Moulding Materials and Their Processing in Foundries. 2nd Ed.~~

„Kurs odlewnictwa. Materiały formierskie i ich przerobka w odlewniach” Katowice, 1950, PWT, 8°, pp. 306, 269 figs.

General information on moulding materials. Methods of testing moulding sands. Cohesives. Clay. Bonds. Other auxiliary moulding materials. Moulding material in foundries and its control. Means of processing moulding materials. Technical properties of moulding sands. Influence of the processing of moulding materials on the properties of the sands in moulds and cores. Influence of the moulding sand on the tensile properties of the metal in castings. Management of moulding materials in foundries. Plant and implements for processing moulding materials. Equipment units for processing moulding materials. Equipment for the preparation of moulding sands.

metallurgy

P.T.A.

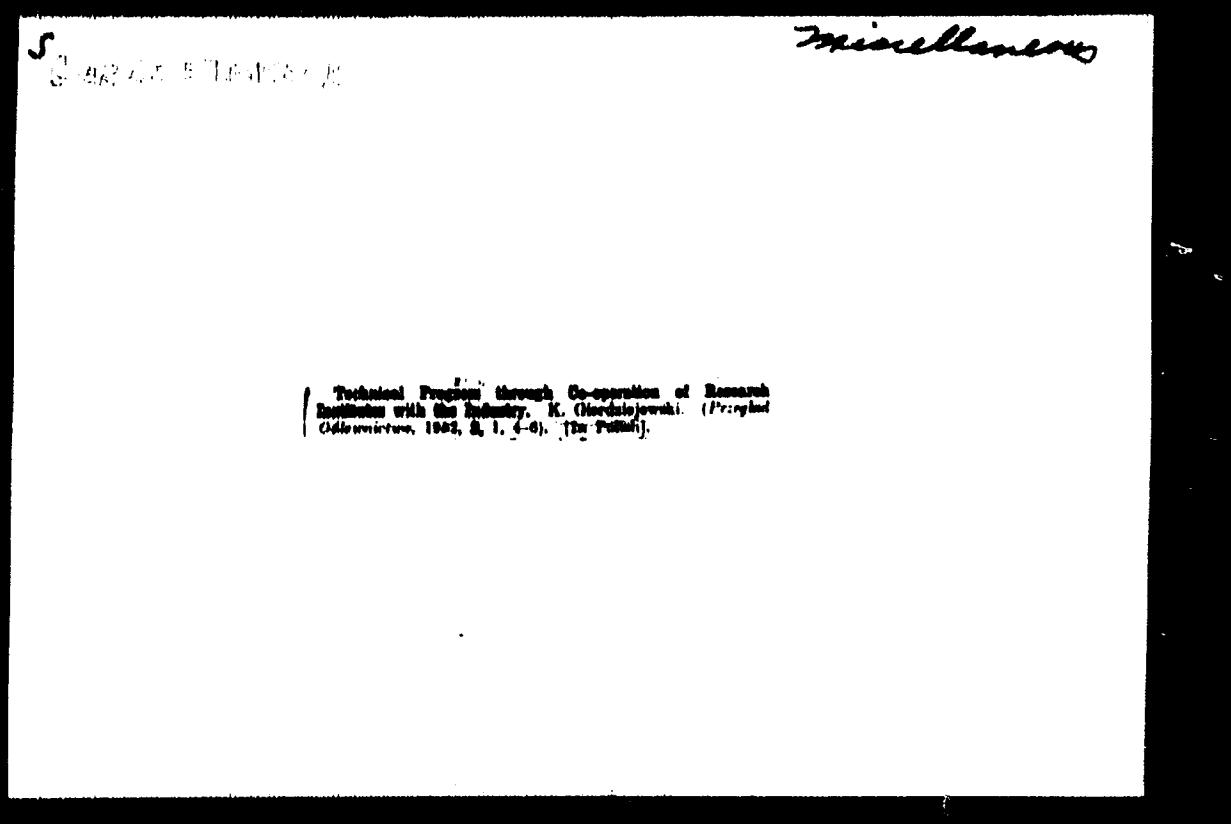
201

691 7410911

Geoffrey H. R. Foundry Course, 2nd Ed.

Russell Smithwaite. Warminster, 1950. Croydon, 85 pp. 610. 315

Short review of the history of foundry practice. Raw materials for foundry: metals, fuel, fluxes. Refractory materials. Metal melting furnaces in foundries: cupolas, crucible furnaces, reverberatory furnaces, converter, electric furnaces. Classification of cast metal.

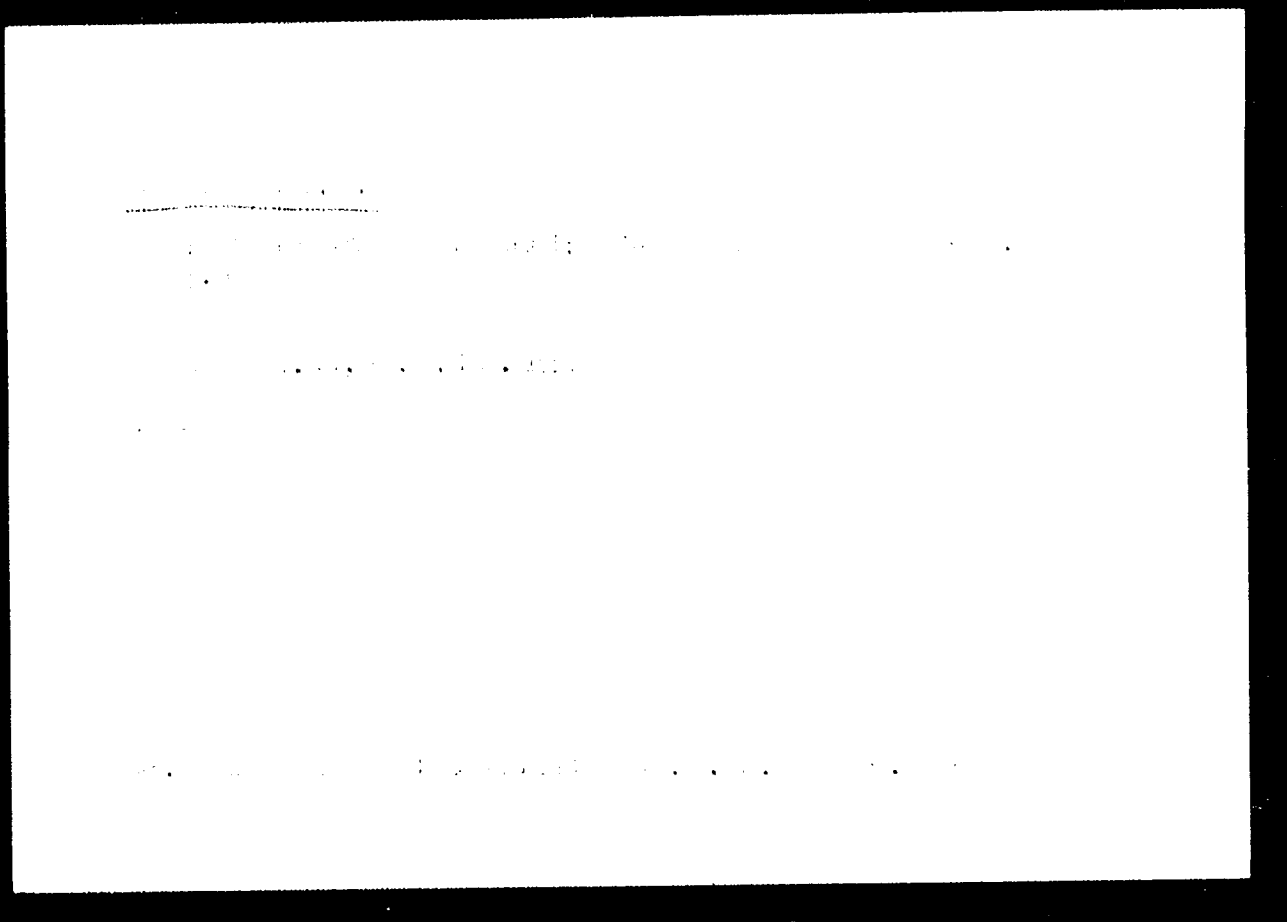


GIERZIEJEWSKI, R.

(PRZEGLAD ODLKWNICTWA, Vol. 3, No. 1, Jan. 1953, Krakow, Poland)

"Which of the Soviet foundrymen's achievements should be applied as quickly as possible in our foundries?" p. 7.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954



GIERULIJEWSKI, P.

GIERULIJEWSKI, P. Some achievements in elaborating new methods of
manufacturing models of molds in the tech. p. 200.

Vol. 5, No. 10, Oct. 1956

TECHNICAL SCIENCE

TECHNOLOGY

Warsaw, Poland

So: East European Accession, Vol. 5, No. 5, May 1966

GIERDEJEWSKI, K.

GIERDEJEWSKI, K. Feliks Rakoczy; an obituary. p. 374. Vol. 5, No. 12
Dec. 1955. PRZEGLAD ODLEWNICTWA. Krakow, Poland.

GIERZIEWSKI, K.

Poland

Some remarks on the article by J. Lutoslawski on Economics in foundries.

SO: Foundry Journal, Poland, #6, June 1955, Unclassified.

GIERDZIJEWSKI, K.

Sketches from the history of Polish founding. p. 100.

SLEVARENSTVI Vol. 4, no. 4, Apr. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

GIEMIELICZAKI, R.

GIEMIELICZAKI, R. Lucel Alaniecki. p. 453

Vol. 3, no. 12, Dec. 1956

REVIEW

POLITICAL SCIENCE

Warsaw, Poland

So: East European Accession Vol. 4, no. 3, March 1957

KEPINSKI, Antoni; WINID, Boguchwal; GIERDZIEWICZ, Aleksandra

Considerations on the orientation reflex. Neurol. etc., polska
11 no.3:383-391 '61.

1. Z Kliniki Psychiatrycznej AM w Krakowie Kierownik: prof. dr
E. Brzezicki.

(REFLEX CONDITIONED) (ORIENTATION)

KEPINSKI, Antoni; GIERDZIEWICZ, Aleksander; WALCZYNSKA, Anna

"The God Almighty complex". Polski tygod. lek. 16 no.46:1768-1770
13 N '61.

1. Z Kliniki Psychiatrycznej A.M. w Krakowie; kierownik: prof. dr
Eugeniusz Brzezick.

(PARANOIA case reports

LOEWENSTEIN, Ludwik; GIERDZIEWICZ, Bogdan

A case of mental disorder during the course of migrating thrombophlebitis of the lower extremities and brain. Neurol. neurochir. psychiat. pol. 13 no.2:305-308 '63.

1. Ze Szpitala dla nerwowo i psychicznie chorych w Kobierzynie
Kierownik: dr med. J. Gallus.

(NEUROSES) (THROMBOPHLEBITIS)
(CEREBRAL EMBOLISM AND THROMBOSIS)
(LEG)

LOEWENSTEIN, Ludwik; GIERDZIEWICZ, Bogdan

A case of lambliasis with mental disorders. Neurol. neurochir.
psychiat. pol. 13 no.2:309-312 '63.

1. Ze Szpitala dla nerwowo i psychicznie chorych w Kobierzynie
Kierownik: dr med. J. Gallus.
(NEUROSES) (GIARDIASIS)

GIEREX, Edward

Deepening of ideologic and educational work on the mining staff.
Wiadom gorn 12 no.6:177-179 Je '61.

1. Członek Biura Politycznego Komitetu Centralnego Polskiej
Zjednoczonej Partii Robotniczej, Katowice.

GIEREK, Edward

Congratulations of the Executive Board of the Voivodeship Committee of the Polish United Workers Party to the designers and executors of moving the open-hearth furnace in the Pokoj Steel Works. Wiad hut 19 no.11:297 N°63.

1. Za Egzekutywe Komitetu Wojewodzkiego Polskiej Zjednoczonej Partii Robotniczej, Katowice.

P/519/62/000/004/006/008
E202/E492

AUTHORS: Bednarz, Stanisław and Giorgiel, Józef (Krakow)
TITLE: The possibility of generation of self-excited vibrations of aeroplane wing
SOURCE: Polska Akademia Nauk. Instytut Podstawowych Problemow Techniki. Zagadnienia drgan nieliniowych. no.4. 1962. 149-158

TEXT: The authors accepted a similar wing model as that given by Y. Rocard (L'instabilité en mécanique, Paris, 1954), i.e. with two degrees of freedom. In contrast to earlier work aiming at linearization, nonlinear equations were obtained which under certain conditions may yield a periodic solution. This solution represents a limiting condition, i.e. a limiting cycle, of the vibration of an aeroplane wing. An energy diagram for the two degrees of freedom system is given, the source of energy being the airstream engulfing the wing, while the control of the energy supply is a function defining the dependence of the aerodynamic forces on the angle of incidence. Taking into consideration the aerodynamic characteristics of the profiles, particularly those

Card 1/2

The possibility of generation ...

P/519/62/000/004/006/008
E202/E492

which are nonsymmetrical, it is shown that the above dependence is highly nonlinear. The vibrational system, i.e. the wing, experiences two types of vibration, the bending and the torsional ones. Both these types are coupled. By taking into consideration the nonlinearity, it is shown that self-excited vibrations may appear in certain conditions capable of definition. These conditions are analyzed at length, special attention being given to the conditions under which self-excited vibrations may grow when the system is removed from equilibrium. There are 5 figures.

ASSOCIATION: Katedra Mechaniki Technicznej AGH Krakow
(Department of Technical Mechanics AGH, Krakow)

SUBMITTED: February 16, 1961

Card 2/2

BOGUSZ, Wladyslaw, doc., dr.; BEDNARZ, Stanislaw, mgr., inz.;
GIERGIEL, Jozef, mgr., inz.

Hydraulic method for the granulation and separation of
open-hearth slag. Wiad hutn 18 no.3:65-67 Mr '62.

BEDNARZ, Stanislaw, mgr inz.; GIEGIEL, Jozef, mgr inz.; SEDZIWIY, Stanislaw,
mgr inz.

Conditions for stable work of ladles transporting liquid metal. Hutnik
P 30 no.1:13-16 Ja '63.

LECIAN, Jaroslav, inz.; GIERGIEL, Vaclav, inz.

Vertical shaft and its construction from the viewpoint of mining.
Uhli 5 no.6:211-213 Jo '63.

1. Benske projekty, Ostrava.

Giergielewicz, H.

EXCERPTA MEDICA Sec.12 Vol.9/6 Ophthalmology Jun 55

1038. GIERGIELEWICZ H. Klin. ocznej Akad. med. im. gen. Karola Swirczewskiego, Szczecin. *Leczenie zolizowych schorzeń oczu u dzieci. Treatment of scrofulous diseases in children KLIN. OCZNA 1954, 24/4 (283-291) Graphs 2

All known drugs applied in the disease were used during the treatment of 122 children. The best remedy seems to be 2% solution of isoniazid instilled 12 times a day in eyedrops. Good results also from cibasol-privine.

Szmyt - Łódź

GIERGIELWICZ-MOZAJSKI, Lech, Starachowice, Szpital Miejski

Transcutaneous wiring of mandibular fractures. Polski przegl.
chir. 27 no.5:447-449 May '55.

(MANDIBLE, fractures,

surg., wiring)

(FRACTURES,

mandible, wiring)

STARKIEWICZ, Witold; GIERGIELEWICZOWA, Halina

Influence of cortical stimuli on the course of eye burns in rabbits. Klin. oczna 26 no.1:19-24 1956.

1. Z Kliniki Ocznej Pomorskiej A. M. im. Gen. K. Swierczewskiego w Szczecinie. Kierownik: prof. dr. W. Starkiewicz.

(EYE, wounds and injuries

burns, eff. of cortical stimulation in rabbits (Pol))

(BURNS, experimental

eye, eff. of cortical stimulation in rabbits (Pol))

(CEREBRAL CORTEX, physiology

eff. of stimulation on eye burns in rabbits. (Pol))

P/025/60/000/009/001/002
D003/D101

AUTHORS: Gomułczyński, Józef, Master, Zechenter, Jan, Master
Engineer, Gierlaszyńska-Czerwińska, Stanisława, Master,
and Kasza, Adam

TITLE: Instructions for cement tests and determination of
cement properties for the needs of the petroleum indus-
try

PERIODICAL: Nafta, no. 9, 1960, 244-249

TEXT: The article contains a detailed description of cement testing
procedures in the petroleum industry. The new instructions are
based on the official instructions issued by the Stowarzyszenie
Naukowo-Techniczne Inżynierów i Techników PN (Scientific and Techni-
cal Association of Polish Petroleum Engineers and Technicians), on
US standards (API) and on Soviet standards (GOST). Individual
paragraphs of the instructions are dedicated to cement sampling and
necessary instrumentation, fineness specifications for cement used
in bore holes, preparation of cement slurry for testing, determina-

Card 1/2

Instructions for cement tests...

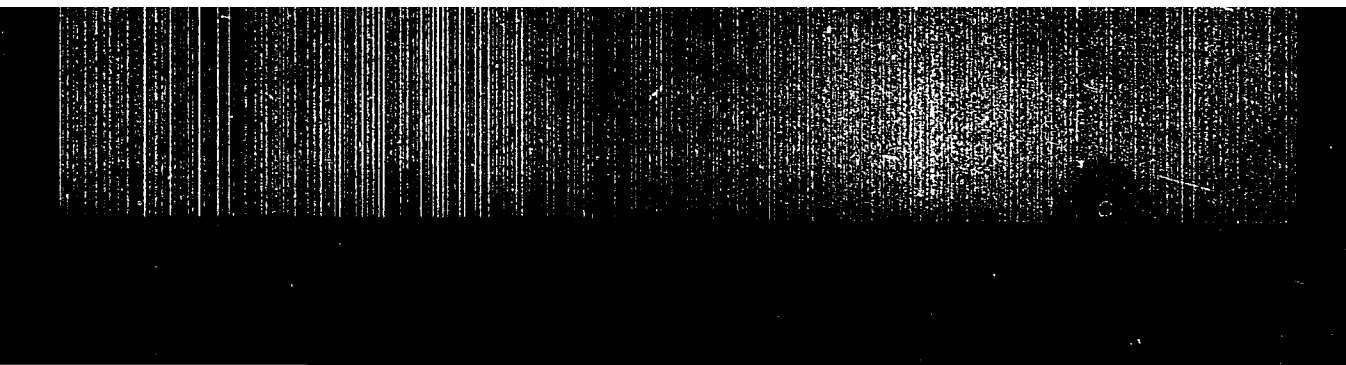
P/025/60/000/009/001/002
D003/D101

tion of the specific gravity of slurry, filtration tests, setting time requirements, consistometer tests of cement samples and determination of mechanical properties of cement. The article closes with a facsimile of a test certificate. Upon approval by the Zjednoczenie Przemysłu Naftowego (Petroleum Industry Union), the instructions will be obligatory for the entire petroleum industry. There are 4 figures and 3 tables.

Card 2/2

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020013-4



APPROVED FOR RELEASE: 09/24/2001

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^z
GIERLASYNKA, S. ; GUMULCZYNSKI, J.
_n

Naphthene drilling mud. Biuletyn. p. 9.. MAFPA, Krakow.
Vol. 10, no. 10, Oct. 1954.

SOURCE: East European Accession (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

GLERLASZYŃSKA 5

021.5/5.144 : 832.820

Charles W. E. Garverick J. Testing the Value of Milk for Predicting Lifetime Yield. *Journal of Dairy Science* 61:1033-1040, 1978.

[illegible]

The new variety of drilling fluid prepared from different kinds of this water is very difficult to determine the properties in view of this situation, various kinds of oils were tested to ascertain which of them will offer good conditioning service as a suitable cheap material for preparing drilling fluids. From some experiments tested the oils from China proved satisfactory. The properties of these oils and the manner of conditioning them are described in this article. Conclusions: the oils from China (mainly kerosene, light kerosene II) are suitable for this use. Ch. oil, kerosene, and light kerosene II are suitable for preparing drilling fluids. After working the variety from Ch. oil, preparing drilling fluids, the effect is somewhat better than the natural oil. Kerosene II is a very effective treatment both in the natural state and after being used in preparing drilling fluids. The oils from China are more suitable in the natural state and after working compare favorably with the kerosene from abroad.

GP

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POLAND/Chemical Technology - Chemical Products and Their H-13
Application. Ceramics. Glass. Binders. Concrete.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25838
Author : Gumuleczynski Jozef, Gierlaszynska Stanislaw
Inst : Petroleum Institute.
Title : Technology of Processing of Clays for the Petroleum
Industry at a Special Plant.
Orig Pub : Prace Inst. naftow., 1957, A, No 48, 2-7.
Abstract : A study has been made of Chmielnic clays and the tech-
nology has been worked out for their processing to a
suspension and dry powders for use in the petroleum
industry.

Card 1/1

- 21 -

GIERLASZYNSKA, S.; GUMULCZYNSKI, J.

Loams as a raw material for drilling muds. p. 266.

NAFTA. (Instytut Naftowy) Krakow, Poland, Vol 15, No. 10, Oct. 1959.

Monthly list of East European Accession (EEAI) LC., Vol. 9, No. 1, Jan. 1960

Uncl.

GIERLASZYNSKA, S.; GUMULCZNYSKI, J.

Well cementing in salt deposits. p. 302

NAFTA (Instytut Naftowy) Krakow, Poland, Vol.15, no. 11, Nov. 1959

Monthly list of East European Accession (EEAI) LC., Vol. 9, No. 1, Jan. 1960

Uncl.

GIERLASZYNSKA, S.; GUMOLCZYNSKI, J.

The causes of drilling mud leakages and ways of preventing it. p. 3.

Katowice, Poland (City) Instytut Naftowy. PRACE. Katowice.
No. 61, 1959.

Monthly list of East European Accessions Index, (EEAI), LC, Vol. 8, no. 6,
June 1959.
uncla.

GUNULCZYNSKI, Jozef; GIERLASZYNSKA, Stanisława

Remarks on the article "The Influence of Oil-Well Drilling-
Fluid Parameters on Drilling Indexes." Wiad naft 6 no.1:6-7 '60.
(KEAI 9:6)

(Oil well drilling)

HERMAN, Alojzy, inż.; KOLIS, Jan, inż.; PUTYNSKI, Zbigniew, inż.;
LEKOWSKI, Antoni, technik; JANKOWSKI, Zdzislaw, technik;
MALINOWSKI, Tadeusz, technik; GIERLICH, Kazimierz, technik

Vapor heat recovery from evaporators for heating distilling
apparatus in alcohol distilling plants. Gosp paliw 11
Special issue no.(95):9 Ja '63.

1. Sieradzka Gorzelnia Przemyslowa, Sieradz.

C & A
1951

Biological Chemistry
11/11 Pharmacology

Pharmacological properties of p-acetaminobenzaldehyde thiosemicarbazone. J. Supniewski and R. Gierlotka. *Polish J. Pharm. Sci.*, (Class. med. 1950, 119, 71). (in English).--The min. lethal dose of p-acetaminobenzaldehyde thiosemicarbazone (TA 608) is 80 mg/kg in mice and 10 mg/kg in dogs in repeated doses. Paralysis of the central nervous system occurs. There also occurs contraction of smooth muscle, inhibition of enzyme action, injury to blood vessels and glandular organs, a decrease in serum globulin, a rise in serum albumin, and a change in the colloidal structure of the erythrocytes. W. M. McC.

3,4-Diamidinodibenzofuran (Moffatt) 10. Oxidation product of dihydrocampholenolactone (Fujita) 10. Organolead compds.--prepn. diethyllead salts [sternutatory action] (Heap) 10. 17 α -Propargyltestosterone [estrogenic and progestational activity] (Magrath) 10. Anticonvulsant action and mol. structure of heterocyclic pentagonal compds.--dimethyldithiohydantoin [counteract metrazole] (Hazard) 10. Nanthones and thiazanthones--synthesis of 2- and 3-dialkylaminoalkylamino derivs. [for antiepileptic and schistosomiasis treatment] (Mann) 10. Unsymmetrically substituted α,β -diethylstilbenes [with estrogenic activity] (Jenkins) 10. Prepn. of isoxaloxazines [action against mouse ascites tumor] (Fernholz) 10. Deriv. of 1,3-diazabicyclo[3.3.1]nonane [with sedative-hypnotic activity] (Bäumler) 10. Synthetic sympatholytic substances in ergotamine series--derivs. of benzylamine, phenethylamine, and α -methylphenethylamines (Chla-varelli) 10. Application of phys. chem. methods to explain inverse [antagonistic] influence of certain medicines [Adamas] 17. Patent: Amino ketones and amino alcs. [vasoconstrictors] (N. V. Philips' Gloeilampenfabrieken) 10.

C. Q. G. (1951)

Biological Chemistry
1951 Pharmacology

Pharmacological properties of paledrine (p-chlorophenyl-isopropylbiguanide). Emanuel G. G. (Bull. intern. Acad. Polon. Sci., Classe 1951, 100-101 in English).
M.L.D. of paledrine (I) for frogs is 120 mg/kg, for Infusoria 1:20,000, for Bacillates 1:50,000, for bacteria 1:10,000. At 20-40 mg/kg, I first stimulates and then inhibits respiration in rabbits, blood pressure falls, coronary vessels contract, and cardiac irregularities develop.
William M. McCord

Poland/Analytical Chemistry - Analysis of Organic Substances, G-3

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61901

Author: Gierlowska, A., Blitek, D.

Institution: None

Title: Colorimetric Method for Determining Menadione

Original

Periodical: Kolorymetryczne metoda oznaczania menadionu, Acta Polon. pharmac., 1955, 11, Dodatek: Pam. II, Ogolnopolskiego Zjazdu nauk. Polak. Towarz. Farmac. Lodzi, 126-127; Polish; Russian and English resumes

Abstract: A method has been worked out for the colorimetric determination of menadione (2-methyl-1,4-naphthoquinone) (I) and its derivatives in medicines. To a sample containing 0.03-1 mg I added 2 ml concentrated HCl, heated 40 minutes at 80° and photometric determination is made at 510 mμ.

Card 1/1

BUKOWSKA, Hanna; GIERLOWSKA, Jadwiga

Spectrophotometric determination of diprophilline and luminal in
their mixtures. Chem anal 5 no.2:309-315 '60. (KRAI 10:3)

1. Zaklad Analityczny Instytutu Farmaceutycznego, Warszawa.

Kierownik Zakladu: mgr. Wanda Dmowska.

(Spectrophotometry) (Pherobarbital)

(Dihydroxypropyltheophylline)

WILSON, J.

See also military in construction in sentence . . . 141.
p. 117, para. 1, 12, no. 1, 13, 14.

GIERMANSKI, Aleksander; MARCINIAK, Roman

Post-irradiation pulmonary changes in roentgenotherapy
of breast cancer. Polski przeegl.radiol.19 no.4:207-219
Oct.-Dec 1955.

1. Z Kliniki Radiologicznej A.M. we Wroclawiu. Kierownik:
doctor Zb. Kubrakiewics.

(LUNGS, effect of radiations on,
x-rays in ther. of breast cancer)
(BREAST, neoplasms,
ther., x-ray, eff. on lungs)
(ROENTGEN RAYS, injurious effects,
on lungs, in ther. of breast cancer)

EXCERPTA MEDICA Sec 13 Vol 13/9 Dermatology Sept 59

2313. HERPES ZOSTER AFTER THE TREATMENT OF CANCER OF THE

BREAST BY X-RAYS - Półpasiec po naświetlaniach raka sutki promieniami Roentgena - Giermański A. Klin. Radiol. A.M., Wrocław - POL. TYG. L.E.K. 1958, 13/25 (958-962)

- On the basis of material from the Radiological Clinic of the Medical Academy in Wrocław, the observations on the appearance of herpes zoster after treatment of cancer of the breast by X-rays are presented. In total, 219 patients were irradiated; herpes zoster was observed in 7 cases. The period of clinical and radiological observation from the time of appearance of herpes zoster was from 2 to 5 yr. In this period no metastases were seen in 5 patients. The localization of herpes zoster most frequently observed was on the opposite side from that where the breast had been operated upon (5 cases). Herpes zoster appeared mostly 2-3 months after the termination of the treatment, and in one case a year later. In 2 patients herpes zoster appeared simultaneously with metastases, i.e. it was a symptomatic herpes zoster. On the basis of observations from the literature and the course of the above mentioned cases, it should be assumed that X-rays in certain cases may induce the appearance of herpes zoster. The question, however, whether there is any connection between cancer of the breast and herpes zoster cannot be answered as yet because the aetiology of herpes zoster and that of cancer as well as the processes of the reactivity of tissues to the X-ray energy are not sufficiently explained. (XIII, 5, 14, 16)

HANDZEL, Leon; GIERMANSKI, Aleksander

Value of radiological investigations in vocal and speech rehabilitation following laryngectomy. Polski przeegl. radiol. 23 no.5:313-318 S-O '59.

1. Z Ośrodka Badawczo-Leczniczego Foniatrycznego przy Klinice Otolaryngologicznej A.M. we Wrocławiu Kierownik Kliniki: prof. dr W. Jankowski Kierownik Ośrodka Lek.: mgr L. Handzel i z Kliniki Radiologicznej A.M. we Wrocławiu Kierownik: doc. dr Z. Kubrakiewicz.

(LARYNX surg)

(SPEECH)

GIERMANSKI, Aleksander; HANDZEL, Leon

Attempted therapy of certain forms of chronic hypertrophic laryngitis by means of roentgen rays. Otolaryngologia 14 no.1: 89-94 '60.

1. Z Kliniki Radiologicznej A.M. we Wrocławiu, Kierownik: doc. dr Z. Kuźbrakiewicz; i z Ośrodka Badań i Lecznictwa Foniatrycznego przy Klinice Otolaryngologicznej A.M. we Wrocławiu, Kierownik Kliniki : prof. dr med. W. Jankowski, Kierownik Ośrodka: mgr. filoz. dr med. L. Handzel.
(LARYNGITIS radiother.)

HANDZEL, Leon; GIERMANSKI, Aleksander

Pneumatization disorders of the mastoid process and lateral sinuses of the nose in clefts of the palate, alveolus dentis and lips. Otolar.polska 14 no.3:375-381 '60.

1. Z Ośrodka Badawczo-Leczniczego Poniatrycznego przy Klinice otolaryngologicznej A.M. we Wrocławiu, Kierownik Ośrodka: dr med. mgr L.Handzel; Kierownik Kliniki Otolaryngologicznej A.M. we Wrocławiu: prof. dr med. W.Jankowski i z Kliniki Radiologicznej A.M. we Wrocławiu, Kierownik Kliniki: doc. dr med. Z.Kubrakiewicz.
(CLEFT PALATE compl)
(MASTOID dis)
(PARANASAL SINUSES dis)

POTOCZEK, Stanislaw; HIRNLOWA, Ludmila; GIERMANSKI, Aleksander; KAWECKI, Karol

Co-existing chronic lymphatic leukemia with gastric cancer. Polski
tygod. lek. 16 no.36:1408-1412 4 S '61.

1. Z III Kliniki Chorob Wewnetrznych A.M. we Wroclawiu; kierownik:
prof. dr Edward Szczeklik, z Kliniki Radiologicznej A.M. we Wroclawiu;
kierownik: doc. dr Zbigniew Kubrakiewicz i z Zakladu Anatomii Patolo-
gicznej A.M. we Wroclawiu; kierownik: prof. dr Zygmunt Albert.

(LEUKEMIA LYMPHOCYTIC compl)
(STOMACH NEOPLASMS compl)

CZYŻEWSKI, K.; GIEHMANSKI, A.

Spontaneous lienorenal venous fistulae in the splenoportographic picture. Pol. przezl. radiol 27 no.5:443-448 PLO '63.

1. 2 : Kliniki Chirurgicznej (Kierownik prof. dr med. K. Czyzewski) i z Kliniki Radiologicznej Akademii Medycznej we Wrocławiu (Kierownik doc. dr med. J. Grabka, 1963).

POLAND

GIEMANSKI, Aleksander and OLESZKIEWICZ, Leopold; First Surgical Clinic (I Klinika Chirurgiczna) (Director: Prof. Dr. K. CZYZEWSKI) and Radiology Clinic (Klinika Radiologiczna) (Director: Docent, Dr. med. Z. KUBRAKIEWICZ), both of the AM [Akademia Medyczna, Medical Academy] in Wroclaw

"Dyskinesia of the Biliary Tract in the X Ray Picture and Minute Duodenal Sondage."

Warsaw, Polski Tygodnik Lekarski, Vol 13, No 35, 26 Aug 63, pp 1296-1300

Abstract: [Author's English summary modified] Authors studied bilingraphin test and minute duodenal sondage in 134 patients, not operated on and cholecystectomized, and discuss the value of these tests in diagnosing biliary tract dyskinesia. Discrepancies of results obtained with the two tests concerned mainly the function of the Oddi sphincter and hypertonic dyskinesia, and were greater in operated patients, and authors find the minute sondage the more useful test. There are 10 references: 6 Polish and 3 Western.

1/1

GIERMANSKI, Aleksander

Renal excretion of biligrafin and secretory activity of the
liver. Pol. tyg. lek. 18 no.46:1713-1717 11 N'63

1. Z Kliniki Radiologicznej AM we Wroclawiu; kierownik Kliniki:
doc.dr.med. Z.Kubrakiewicz.

*

CHERNIAKSI, Alexander; CHESTNIENIC, Leonid

Pyelotric duodenography in the diagnosis of diseases of the pancreas and Vater's ampulla. *Rod. prazn. radiol.* 1976, 24: 141-147. Krokp 174.

1. Z I Kliniki Chirurgicznej (Pracownicy: prof. dr. J. Winiarski,
prof. dr. J. Kłobucki, dr. med. J. Krawczyński, dr. med. J. Krawczyk,
dr. med. J. Krawczyński).

CZYZEWSKI, K., prof. dr.; CHRZANOWSKA, M.; DOLINSKI, J.; GIERMANSKI, A.

Angiography of the portal circulation in hypertensive children.
Cesk. radiol. 19 no.2:95-97 Mr '65.

1. I. chirurgicka klinika Lekarske akademie Wroclaw, Polsko
(prednosta: prof. dr. Czyzewski).

CZYZEWSKI, K., prof. dr.; DAWISKI, B.; GIEJMANSKI, A.; OLESZKIEWICZ, Z.

Wirsungography in peroperative cholangiography. Cesk. radiol.
19 no.2:101-103 Mr '65

1. I. chirurgicka klinika (prednosta: prof. dr. K. Czyzewski);
radiologiczna klinika (prednosta: doc. dr. Z. Kubrakiewicz)
Lekarske akademie Wroclaw, Polsko.

CZYZEWSKI, K.; GIERMANSKI, A.; WOLEK, M.

Congenital malformations of the portal vein in the radiologic picture. Pol. przegl. radiol. 29 no.4:425-432 J1-Ag '65.

1. Z I Kliniki Chirurgicznej AM we Wroclawiu (Kierownik: prof. dr. K. Czyzewski) i Kliniki Radiologicznej AM we Wroclawiu (Kierownik: doc. dr. Z. Kubrakiewicz).

GIERMANSKI, Adam

Hydraulic-axial force in turbine-powered drilling. Wiad naft 6
no.4:76-77 Ap '60. (EEAI 9:7)
(Hydraulic turbines) (Boring machinery)

GIERMANSKI, A., mgr. inz.

Application of gas scrubbers to borings in Poland.
Nafta 18 no.4: Suppl. 1. Inst naft 12 no.1:1-2 '62.

GIETMANSKI, Adam, mgr inz.; POLAK, Adam, mgr inz.

Drilling vibrator. Prace inst naft no.81:1-8 '63

GERMAŃSKI, Adam, mgr inż., BUCZEK, Tadeusz

Course of performance of the Swidwin 3 borehole. Nafta Pol
20 no.2:40-44 F '64.

1. Zjednoczenie Przemysłu Naftowego, Warszawa.

BELOWSKI, Henryk; CZYZEWSKI, Kazimierz, GIERMANSKI, Aleksander;
OLESZKIEWICZ, Leopold

Clinical wirsungography. Pol. tyg. lek. 19 no.26:977-979
22 Je'64

1. Z I Kliniki Chirurgicznej (kierownik: prof. dr. med.
K. Czyżewski) i z Kliniki Radiologicznej Akademii Medycznej
we Wrocławiu (kierownik: doc. dr. med. Z. Kubrakiewicz).

GIERMASINSKI, Ladyslaw, agr. inz.

Scientific-Technical Conference on Foundations of Hydraulic
Engineering Works. Gosp wodna 23 no.2:83-84 F '63.

L 44093-66 EWP(t)/ETI/EWP(k) JJE(c) JD/AT/JH/WW

ACC NR: AP6021909

SOURCE CODE: PO/0045/66/029/003/0275/0282

AUTHOR: Gieroczynski, A.; Sujak, B. 41

ORG: Laboratory for Induced Electron Emission, Institute of Experimental Physics
Wrocław University, Wrocław (Zakład Wzbudzonej Emisji Elektronów przy Katedrze
Fizyki Doswiadczałnej Uniwersytetu Wrocławskiego) B

TITLE: Spectral investigations of photostimulated emission of (exo) electrons in
vacuum from plastically deformed aluminum covered with an oxide layer. Part I.
Initial deformation 4 21 16

SOURCE: Acta physica polonica, v. 29, no. 3, 1966, 275-282

TOPIC TAGS: photostimulated emission, plastic deformation, deformed aluminum,
spectral investigation, oxide layer

ABSTRACT: It has been found that initial deformation value ϵ_0 depends not only
on the parameters investigated in previous papers, i. e., oxide-layer thickness D ,

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ACC NR: AP6021909

light intensity I , accelerating-field strength E and air humidity F (studies in the atmosphere) but also on the wavelength of the light stimulating the emission of (exo)electrons. While increasing the wavelength of the light stimulating the emission, it is necessary to deform the sample further. For the wavelength $\lambda = 5250 \text{ \AA}$, the emission of (exo)electrons occurs only after complete failure of the sample. Systematic studies of the influence of the oxide-layer thickness D , light intensity I , and accelerating-field strength E on the initial deformation ϵ_0 have been carried out for both white and monochromatic light with various combinations of D , I , E , and λ . The results of spectral investigations of the emission of (exo)electrons from plastically deformed aluminum confirm the assumption of a model of an electrified fissure in the oxide layer covering the sample which was presented in a previous paper. Orig. art. has: 10 figures and 1 formula. [Authors' abstract] [KS]

SUB CODE: 20/ SUBM DATE: 29Jun65/ ORIG REF: 005/

Card

2/2 LC

GIERON, Zbigniew

Gasoline as an anthelmintic. Przegl. lek., Krakow 10 no.6:
190-192 1954.

1. Z Dziecięcego Specjalistycznego Szpitala w Bytomiu. Dyrektor:
Doc. dr Tadeusz Nowak.

(ANTHELMINTICS,
gasoline)

(PETROLEUM PRODUCTS, effects,
gasoline, anthelmintic)

GIERON, Zbigniew (Bytom)

Diagnosis of sulfonamide allergies by Vaughan test. Przegl. lek.,
Krakow 11 no.2:51-53 Feb 55.

1. Z dziecięcego specjalistycznego szpitala w Bytomiu; dyrektor:
doc. dr. T. Nowak.

(SULFONAMIDES, injurious effects
allergy, diag. Vaughan test.)

(ALLERGY
to sulfonamides, diag. Vaughan test)

KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; KUBISZ, Tadeusz; GIERON-
ZASADZIKOWA, Malgorzata.

New technical solution of the space electrocardiography. Polski
tygod. lek. 10 no.18:597-601 9 May '55.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej Akademii Medycznej
we Wroclawiu. Wroclaw, Zaklad Patologii Ogolnej i Doswiadczalnej A.M
(ELECTROCARDIOGRAPHY, apparatus and instruments
perspective vectograph, simplified)

KOWARZYKOWIE, H; KOWARZYKOWIE, Z; GIERON-ZASADZIENIONA, M.; KUBISZ, T.

Normal QRS system in perspective vectography. Polski tygod.lek.
10 no.33:1075-78 15 Aug '55.

1. Z Zakładu Patologii Ogólnej i Doswiadczałnej i Ośrodka
Kardiologicznego Prsy II i II Klinice Chorob Wewnętrznych A.M.
we Wrocławiu. Wrocław, ul. Marcinkowskiego 1. Zakład Patologii
Ogólnej i Doswiadczałnej A.M.

(ELECTROCARDIOGRAPHY,

QRS wave in perspective vectocardiography)

KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; GIERON-ZASADZINIOWA, M.;
KUBISZ, T.

Syndrome of retardation in perspective vectography. Polski tygod.
lek. 10 no.43:1396-1399 24 Oct 55.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej i Ośrodka Kardiolo-
gicznego przy II i III Klinice Chorob Wewnętrznych A.M. we Wrocławiu.
Wrocław, Zakł. Patol. Og. i Dosw.
(VECTOCARDIOGRAPHY,
spatial, synd. of retardation in)

KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; GIERON-ZASADZNIENIOWA, M.;
KUBISZ, T.

Certain types of bundle branch block in spatial vectography.
Polski tygod. lek. 10 no. 49:1572-1575 5 Dec. '55.

1. Z Zakładu Patologii Ogólnej i Doswiadczałnej i Ośrodka
Kardiologicznego przy II i III Klinice Chorob Wewnętrznych
A.M. we Wrocławiu. Zakł. pat. Og. i Dosw. A.M. we Wrocławiu.
(VECTOCARDIOGRAPHY,
spatial, in bundle branch block)
(HEART BLOCK,
bundle branch block, spatial vectocardiography)

KOWARZYKOWIE, H. Z.; DYBA, K.; GIMRON-ZASADZIENIOWA, M.; KUBISZ, T.

Stereometry of vectogram. Polski tygod. lek. 11 no.9:390-394
27 Feb 56.

1. Z Zakładu Patologii Ogólnej i Doswiadczałnej A M we Wrocławiu
i z Zakładu Geometrii Wykresalnej Politechniki Wrocławskiej.
Wrocław, Zakład Patologii Ogólnej i Dosw. A. M.
(VECTOCARDIOGRAPHY,
spatial, stereometry. (Pol))

KOWARZYKOWIE, Hugon i Zofia; GIERON-ZASADZIENIOVA, Malgorzata;
KUBISZ, Tadeusz

Supplemental ventricular stimulation in spatial vectography.
Polski tygod. lek. 11 no.11:483-489 12 Mar 56.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej i Ośrodka
Kardiologicznego A.M. we Wroclawiu. Wroclaw, ul. Marcinkowskiego 1,
Zaklad Patologii Ogolnej i Doswiadczalnej A.M.
(VECTOCARDIOGRAPHY,
spatial, supplemental ventric. stimulation (Pol))

KOWARZYKOWIE, H. Z.; GIERON-ZASADZIENIOWA, M.; KUBISZ, T.

Vectographic analysis of two cases of arrhythmia. Polski
tygod. lek. 11 no.26:1160-1166 25 June 56.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej i Ośrodka
Kardiolog. Akad. Med. we Wroclawiu. Zak. Patol. Ogoln. i Dosw.
Wroclaw Marcinkowskiego 1.

(ARRHYTHMIA, physiology,
vectocardiography (Pol))

(VECTOCARDIOGRAPHY, in various diseases,
arrhythmia (Pol))

KOWARZYKOWIE, H. Z.; GIERON-ZASADZIENIONA, M.; KUBISZ, T.; HIRNLOWA, L.

QRS vectographic waves in myocardial infarction. Polski tygod.
lek. 11 no.33:1451-1458 13 Aug 56.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnej, Ośrodka
Kardiologicznego i z III Kliniki Chorob Wewnętrznych Akademii
Medycznej we Wrocławiu).

(VECTOCARDIOGRAPHY, in various diseases,
myocardial infarct. QRS waves (Pol))

(MYOCARDIAL INFARCT. diagnosis,
vectocardiography, QRS waves (Pol))

KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; KOWALCZYK, Wendelin; KUBISZ, Tadeusz;
GIERON-ZASADZIENIOWA, Malgorzata

Clinical model of the perspective vectorcardiograph. Polski tygod. lek.
13 no.49:1957-1961 8 Dec 58.

1. (Katedra Patologii Ogólnej i Doswiadczałnej A. M. Ośrodek Kardiologiczny przy P.S.K. Nr 1 A.M. i Zakład Patofizjologii Doswiadczałnej Instytutu Immunologii i Terapii Doswiadczałnej im. Ludwika Hirszfelda we Wrocławiu)
Adres: Wrocław, ul. Marcinkowskiego 1. Zakład Patol. Og. i Dosw. A.M.
(VECTORCARDIOGRAPHY, appar. & instruments
perspective vectorcardiograph, clin. model (Pol))

KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; DYBA, Konrad; GIERON-ZASADZIEHLOWA,
Malgorzata

Classification of vectocardiograms according to the course. Polski
tygod. lek. 14 no.28:1286-1288 13 July 59.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. Orodka
Kardiologicznego P.S.K. Nr 1 i z Zakladu Geometrii Wykreslonej
Politechniki we Wroclawiu.

(VECTOCARDIOGRAPHY)

KOWARZYKOW, Hugon; KOWARZYKOWA, Zofia; KUBISZ, Tadeusz; SITNIEWSKI, Stefan;
GIERON-ZASADZIENIOWA, Malgorzata; LIPOWSKA, Ligia

Reconstruction of the axonocardiogram in Einthoven's triangle.
Polski tygod. lek. 16 no.26:981-984 26 Je '61.

1. Katedra Patologii Ogolnej i Doswiadczalnej A.M. i Osrodek Kardiologiczny przy P.S.K. Nr 1 we Wroclawiu.

(VECTOCARDIOGRAPHY)

KOWARZYKOW, Hugon; KOWARZYKOWA, Zofia; KUBISZ, Tadeusz; SITNIEWSKI, Stefan;
GIERON-ZASADZIENIOWA, Malgorzata

Reconstruction of unipolar limb axonocardiograms and electrocardio-
grams. Polski tygod. lek. 16 no.32:1221-1224 7 Ag '61.

1. Katedra Patologii Ogolnej i Doswiadczalnej A.M. i Osrodek Kardiolo-
giczny przy P.S.K. nr 1 w. Wroclawiu.

(ELECTROCARDIOGRAPHY) (VECTORCARDIOGRAPHY)

GIERON-ZASADZIENIOWA, M.; HALAZINSKA, L.; NOLISOWA, J.; UJEC, M.;
ROBACZYNSKA, G.; JAGIELSKI, J.

Auricular pararrhythm in newborn infants. Kardiol. Pol. 7
no.3:211-216 J '64.

1. Z II Kliniki Położnictwa i Chorob Kobietych Akademii
Medycznej (Kierownik: prof. dr K. Jablonski); z I Kliniki
Położnictwa i Chorob Kobietych Akademii Medycznej (Kierownik:
prof. dr K. Nowosad) i z Ośrodka Kardiologicznego PSK nr 1
we Wrocławiu (Kierownik prof. dr Z. Kowarzykowa).

GIEROSZYNSKI, A.; MADER, J.; SUJAK, B.

Photostimulated exoelectron emission as depending on the thickness of the surface layer in plastic processing of oxidized aluminum. *Acta physica Pol* 25 no.1:3-6 Ja '64

1. Institut für Experimentalphysik der Universität, Anstalt für Industrierte Elektronenemission, Wrocław.

1 21636-66 ENE(2)/EWE(k) IJP(c) JD/HM/AT
 ACC NR AF5022619 SOURCE CODE: PO/0045/65/028/001/0031/0043

AUTHOR: Sujak, B; Gieroszynski, A.; Mader, J.

ORG: Laboratory of stimulated Electron Emission, Institute of Experimental Physics,
 Wroclaw University (Zaklad Wzbudzonej Emisji Elektronow przy Katedrze Fizyki
 Doswiadczalnej Uniwersytetu Wroclawskiego)

TITLE: Effect of ion counter generated ions on the kinetics of photostimulated
 exoelectron emission from plastically deformed aluminum

SOURCE: Acta physica polonica, v. 28, no. 1, 1965, 31-43

TOPIC TAGS: plastic deformation, deformation rate, aluminum, electron emission,
 parameter, geiger counter, ion, ionization counter

ABSTRACT: Photostimulated exoelectron emission as recorded in gases and accompanying
 plastic deformation of aluminum is known to exhibit various kinetics according to the
 experimental conditions. By consecutive elimination, the effect of essential param-
 eters, thus the light stimulating emission, the accelerating voltage between the
 specimen and grid cathode of the counter, and the working voltage of the counter
 itself, was investigated. The initial intensities of emission $(N/t)_{0,1}$ on reintro-
 duction of a new parameter into the recording system were found to depend markedly on

1 21636-66
ACC NR: AP5022619

$$\left(\frac{N}{t}\right)_{0,1} = e^{-\alpha_1 U_1 + \beta_1} a_1 b_1 - \text{const}$$

for elimination of the light stimulating emission

$$\left(\frac{N}{t}\right)_{0,2} = e^{-\alpha_2 \sqrt{U_2} + \beta_2} a_2 b_2 - \text{const}$$

for elimination of the accelerating voltage U_2

$$\left(\frac{N}{t}\right)_{0,3} = k_3 \frac{1}{1 + C_3 U_3} b_3 m_3 - \text{const}$$

for the case of elimination of the working voltage U_1 of the counter. The experimental results point to ions generated in the active volume of the counter as a factor able to affect the emission kinetics essentially when applying an ion counter for research work in gases and choosing the parameters inadequately, as e.g. excessively intense stimulating light or too high accelerating voltage. Orig. art. has: 4 formulas and 18 figures. [Author's abstract.]

SUB CODE: //, 20 SUBM DATE: 30 Nov 64/ OTH REF: 017//

Card 2/2

I 21299-66 ENP(e)/ENP(t)/ENP(x) LJP(c) JD/MW/BW
ACC NR: AP5022680 SOURCE CODE: PO/0045/65/028/001/0061/0071

AUTHOR: Sujak, B.; Gieroszynski, A.; Pega, E.

ORG: Laboratory of Stimulated Electron Emission, Institute of Experimental Physics,
Wroclaw University (Zaklad Wzbudzonej Emisji Elektronow przy Katedrze Fizyki
Doswiadczalnej, Uniwersytetu Wroclowskiego)

TITLE: Effect of oxide barrier layer and measuring parameters on the initial
deformation ϵ_0 yielding photostimulated exoelectron emission in vacuum from
plastically deformed aluminum

SOURCE: Acta physica polonica, v. 28, no. 1, 1965, 61-71

TOPIC TAGS: plastic deformation, deformation rate, aluminum, electron emission,
parameter, oxide, specialized coating

ABSTRACT: The paper deals with induced photostimulated emission of electrons
(Exoelectrons) accompanying plastic deformation of aluminum in vacuum. Emission
intensity was measured with a 15-stage Allen-type electron multiplier with Cu-Be
dynodes. In vacuum of 10^{-5} mm Hg, plastic deformation of aluminum was found to be
accompanied by photostimulated emission of electrons whose intensity grew with the
deformation up to the failure of the specimen, when emission decayed with time.
The kinetics of emission, both during deformation and subsequent to it, resembles
that of exoelectron emission into an atmosphere of air. The value of the initial
deformation, ϵ_0 at which exoelectron emission sets in, is shown to depend on the
Card 1/2

I. 21299-66

ACC NR: AP5022620

following factors: a) the thickness D of the oxide barrier layer coating the aluminum specimen; b) the external accelerating field strength E ; c) the intensity I of the light beam stimulating emission; d) the time θ during which the specimen had been annealed; and e) the time of ageing ν subsequent to heating. The results show that the electrically charged walls of the micro-cracks in the oxide layer coating the metal are the factor controlling the emission from the transitional metal-oxide layer. Orig. art. has: 10 figures and 10 formulas. [Author's abstract.]

SUB CODE: 11,20 SUBM DATE: 31Dec64/ OTH REF: 014/

Card 2/2

L 21294-66 EWP(a)/EWP(t) IJP(c) JD/WW/WH

ACC NR: AP5024613

SOURCE CODE: PO/0045/65/028/003/0311/0327

AUTHOR: Gieroszynski, A.; Sujak, B.

69

ORG: Laboratory for Induced Electron Emission, Institute of Experimental Physics,
Wroclaw University (Zaklad Wzbudzonej Emisji Elektronow przy Katedrze Fizyki
Doswiadczalnej, Uniwersyte Wroclaski)

3

TITLE: Exoelectron emission in vacuum in the absence of light during plastic deformation of aluminum thickly coated with oxide

6.44.65

SOURCE: Acta physica polonica, v. 28, no. 3, 1965, 311-327

TOPIC TAGS: plastic deformation, aluminum, deformation rate, electron emission, oxide, electric field

ABSTRACT: The investigation dealt with exoelectron emission in vacuum in the process of plastic deformation of aluminum coated with a thick (over 50 mμ) barrier layer of electrolytic oxide. Deformation was found to be accompanied by electron emission also in the absence of light. According to the thickness of the oxide layer, one sharp maximum on the curve of N/t (ϵ) was found at a deformation ϵ of about 1 to 2% and another maximum δ on the same curve at a deformation ϵ of 3 to 4%. The maximum δ is higher and more diffluent. The height and shape of the two maxima of the N/t (ϵ) curve do not depend on the stimulating light and appear also in the dark. It is shown that their height is affected by: a) the thickness of the layer D,

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L 21294-66

ACC NR: AP5024613

b) the external accelerating field strength E , c) the rate of deformation dc/dt , and d) the procedure employed in preparing the samples. Non-light-stimulated exoelectron emission appearing in the process of deformation of aluminum coated with a barrier layer of electrolytic oxide is considered as emission from the oxide layer itself. It seems to originate under the effect of an electric field of strength $E_0 \sim 10^7 \text{ V cm}^{-1}$ in micro-chinks arising during plastic deformation and cracking of the oxide layer. Orig. art. has: 17 figures and 12 formulas. [Author's abstract.]

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TITLE: Effect of oxide and of measuring parameters on the decay of photostimulated (exo)electron emission in vacuum from plastically deformed aluminum (I)

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TOPIC TAGS: plastic deformation, deformation rate, aluminum, electron emission, oxide, electric field, space charge

ABSTRACT: The process of decay of photostimulated exoelectron emission in vacuum, as measured subsequent to plastic deformation (distention) of aluminum, is considered. The tangent to the emission decay curve $\log N/t(t)$ at points near $t = 0$ is shown to depend on such factors as: a) the thickness of the oxide layer D , b) the external electric field E accelerating electrons, c) the intensity I of light stimulating emission, d) the procedure applied in preparing the samples. The value of the tangent (steepness) of the curve $N/t(t)$ in the point $t = 0$ is considered as a quantity characterizing the rate of decay of emission. It is found that the rate of decay of emission depends on factors opposing the outflow of

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electrons from the metal-oxide/substratum to the space beyond the chinks which arise in the oxide layer coating the aluminum sample in the process of the latter's distention. The hypothesis is proposed that exoelectron emission is controlled by the space charge due to electrons unable to proceed outward of the chink. Orig. art. has: 7 figures and 4 formulas. [Author's abstract.]

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